

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 June 2006 (29.06.2006)

PCT

(10) International Publication Number
WO 2006/066577 A1

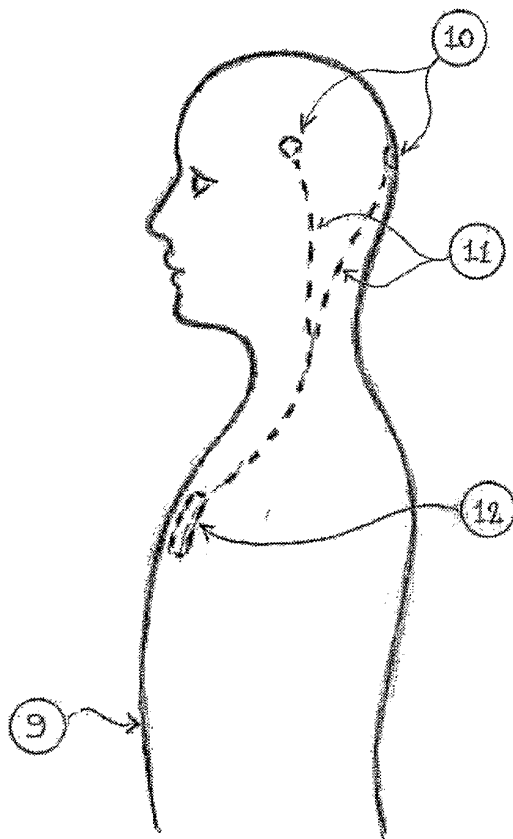
- (51) **International Patent Classification:**
A61B 5/00 (2006.01) A61B 5/0476 (2006.01)
- (21) **International Application Number:**
PCT/DK2005/000739
- (22) **International Filing Date:**
21 November 2005 (21.11.2005)
- (25) **Filing Language:** Danish
- (26) **Publication Language:** English
- (30) **Priority Data:**
PA 2004 01955 20 December 2004 (20.12.2004) DK
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- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

[Continued on next page]

(54) **Title:** METHOD AND APPARATUS FOR PREDICTION AND WARNING OF HYPOGLYCAEMIC ATTACK



(57) **Abstract:** The present invention includes a method and device for warning of hypoglycaemic attacks, which is a big problem for especially diabetics, who are in insulin treatment. It is estimated that about 1 million people have a decreased quality of life as a result of hypoglycaemic attacks. The invention collects EEG signals from people, who must be supervised and analyses these in order to detect characteristic changes in the EEG signals, which occurs in advance of a hypoglycaemic attack. In a preferred embodiment the EEG signals are collected with subcutaneously placed electrodes and the signals are lead via wires drawn under the person's skin to a similar subcutaneously placed signal processing unit. The signal processing analyses the EEG signals and when the pre-seizure characteristics signal changes are detected, a warning signal is given to the person from an alarm giver build into the signal processing unit, e.g. in form of a vibrator. When a person detects a warning signal, the person can prevent the hypoglycaemic attack by e.g. consuming a sugary food.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

专利名称(译)	用于预测和警告低血糖发作的方法和装置		
公开(公告)号	EP1827209A4	公开(公告)日	2011-11-02
申请号	EP2005803996	申请日	2005-11-21
[标]申请(专利权)人(译)	HYPO SAFE		
申请(专利权)人(译)	HYPOSAFE A / S		
当前申请(专利权)人(译)	HYPOSAFE A / S		
[标]发明人	BECK NIELSEN HENNING		
发明人	BECK-NIELSEN, HENNING		
IPC分类号	A61B5/00 A61B5/0476 A61B5/048 A61B5/145		
CPC分类号	A61B5/048 A61B5/0031 A61B5/14532 A61B5/4094 A61B5/7264		
优先权	200401955 2004-12-20 DK		
其他公开文献	EP1827209B1 EP1827209A1		
外部链接	Espacenet		

摘要(译)

本发明涉及一种用于癫痫发作前的低血糖发作预警的装置，这对于特别是正在接受胰岛素治疗的糖尿病患者来说是一个大问题。该设备被配置为从两个或多个皮下或颅内电极（10）收集脑电信号，并通过信号分析来识别脑电信号的癫痫发作前特征变化，包括频率含量降低和振幅增加，并发出警告信号 识别出特征性脑电图变化之后。该设备包括：信号处理单元（12），用于接收所述EEG信号并且用于执行所述分析；以及警报信号提供器，两者都可以被皮下放置。当检测到发作前特征信号改变时，借助于报警器，例如通过报警器向人发出警告信号。以振动器的形式。该设备可以被配置为经由皮下拉出的导线（11）将EEG信号从皮下放置的电极传输到皮下放置的信号处理单元。

